

Marc Girons Lopez

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Birth	5 September 1986 Barcelona (Spain)	Telephone	+46 (0) 70-712 32 80
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		Citizenship	Spain

I am a hydrologist with an interdisciplinary background who aims at making society more resilient and sustainable through addressing water-related issues. I am continuously learning about hydrology and water resources management but also about societal behaviour and data analysis. Everything is connected!

Professional Experience

<i>aug 2018 —</i>	Hydrologist • Swedish Meteorological and Hydrological Institute, SMHI (Sweden) Officer on duty for the Swedish and European flood warning services and researcher on seasonal streamflow forecasting.
<i>feb 2017 — aug 2018</i>	Postdoctoral Researcher • University of Zurich (Switzerland) My research focuses on improving the realism of the snow routine of the HBV rainfall-runoff model while maintaining a low model uncertainty. Also, I contributed to glacio-hydrological modelling of future peak flows in remote valleys of Tajikistan.
<i>aug 2011 — oct 2016</i>	Graduate Teaching Assistant • Uppsala University (Sweden) Lecturing, leading seminars, and leading and assisting in laboratory and field activities for both undergraduate and graduate courses.
<i>aug 2011 — oct 2016</i>	Graduate Research Assistant • Uppsala University (Sweden) Design and implementation of research projects within hydrology and natural disaster science, including defining research questions, modelling, data analysis, and reporting scientific results.
<i>jun 2009 — aug 2009</i>	Quality Control Intern • Laboratori Català de Control (Spain) Quality control tests of cement, concrete and anchorages. Tests of soil properties, water sampling and analysis. Defining procedures for adopting ISO rules.
<i>jul 2008 — sep 2008</i>	Environmental Consultant Intern • URS Corporation (Spain) Environmental control tests of petrol stations, soil decontamination, and hydrogeological data processing. Fauna and sediment sampling for water quality control of rivers and dams.

Education

<i>aug 2011 — oct 2016</i>	Doctor of Philosophy (PhD) • Uppsala University (Sweden) <i>Hydrology and Water Resources Science</i> Thesis: Information Needs for Water Resource and Risk Management: Hydro-Meteorological Data Value and Non-Traditional Information.
<i>aug 2009 — jun 2011</i>	Master of Science (MSc) • Uppsala University (Sweden) <i>Earth Sciences (Hydrology/Hydrogeology)</i> Thesis: Modelling Climatic and Hydrological Variability in Lake Babati, Northern Tanzania.
<i>sep 2004 — jun 2009</i>	Bachelor of Science (BSc) • Universitat Autònoma de Barcelona (Spain) <i>Geology</i>
<i>aug 2007 — jun 2008</i>	Exchange student • Université Joseph Fourier — Grenoble I (France) <i>Geology and Earth Sciences</i>

Selected Publications

(A comprehensive list of publications can be found at gironslopez.me/publications.)

- Girons Lopez, M., Crochemore, L., and Pechlivanidis, I. G. (2021). "Benchmarking an operational hydrological model for providing seasonal forecasts in Sweden". In: *Hydrology and Earth System Sciences* 25.3, pp. 1189–1209. DOI: [10.5194/hess-25-1189-2021](https://doi.org/10.5194/hess-25-1189-2021).
- Girons Lopez, M., Vis, M. J. P., Jenicek, M., Griessinger, N., and Seibert, J. (2020). "Assessing the degree of detail of temperature-based snow routines for runoff modelling in mountainous areas in central Europe". In: *Hydrology and Earth System Sciences* 24, pp. 4441–4461. DOI: [10.5194/hess-24-4441-2020](https://doi.org/10.5194/hess-24-4441-2020).
- Girons Lopez, M., Di Baldassarre, G., and Seibert, J. (2017). "Impact of social preparedness on flood early warning systems". In: *Water Resources Research* 53.1, pp. 522–534. ISSN: 1944-7973. DOI: [10.1002/2016WR019387](https://doi.org/10.1002/2016WR019387).
- Girons Lopez, M., Wennerström, H., Nordén, L.-Å., and Seibert, J. (2015). "Location and Density of Rain Gauges for the Estimation of Spatial Varying Precipitation". In: *Geografiska Annaler: Series A, Physical Geography* 97.1, pp. 167–179. ISSN: 1468-0459. DOI: [10.1111/geoa.12094](https://doi.org/10.1111/geoa.12094).

Skills

Programming	Python • Matlab • \LaTeX • R • Fortran • Markdown • Bash
Software	ArcGIS • QGIS • HBV • HYPE • Git • Inkscape • Linux
Instrumentation	Campbell data loggers • hydro-meteorological sensors
Languages	Native Catalan • Spanish Full professional proficiency English Professional working proficiency Swedish • French Elementary proficiency German
Other	Swedish driving license (B)

Grants, Awards, & Honours

2017	Travel grant • Swiss Association of Geography To participate in the first snow hydrology workshop in Finse (Norway).
2016	EGU's Photo contest • EGU Winner of the 2016 EGU's Photo Contest with the photo Living Flows .
2015	Research Fellowship • CUAHSI To participate in the US National Water Center Innovators Program (NFIE).
2014	Travel grant • Liljewalchs Foundation To participate in the 2016 EGU General Assembly in Vienna (Austria).
2009	Scholarship • Swedish-Spanish Foundation As support during my master studies.
2007	Scholarship • Erasmus Programme To study in Grenoble (France) as an exchange student for a full year.

Other Activities

2016 —	Translator • Planet Press I translate short scientific articles for kids from the European Geosciences Union (EGU) Planet Press initiative from English to Spanish.
2013	Volunteer • IAHS I volunteered supporting the organisation of the 2013 IAHS, IAPSO, IAPSEI Joint Assembly in Gothenburg (Sweden).